

What is claimed is:

1. A method for recovering a titanium compound, comprising bringing a waste solution containing a titanium alkoxide into contact with a halogenating agent to convert
5 the titanium alkoxide to a titanium halide and then distilling the solution containing the titanium halide to recover the titanium halide from the solution.

2. A method for recovering a titanium compound, comprising distilling a waste solution containing a titanium alkoxide and a titanium halide to recover a part of the titanium halide from the waste solution, bringing a residue in distiller given after the distillation into contact with a halogenating agent to convert the titanium alkoxide to a titanium halide
15 and then distilling the solution containing the titanium halide to recover the titanium halide from the solution.

3. The method for recovering a titanium compound as claimed in claim 1 or 2, wherein the waste solution is a solution
20 formed when a catalyst for polymer production or a catalyst component for polymer production is prepared.

- 7
4. A process for preparing a titanium halide, comprising bringing a waste solution containing a titanium

09904266116660

comp

069847-11

6. The process for preparing a titanium halide as defined in claim 4 or 5, wherein the waste solution is a solution used when a catalyst for polymer production or a catalyst component for polymer production is prepared.

process for preparing a catalyst for polymerizing using the titanium halide obtained by one of claims 1 to 4 to prepare a catalyst for polymerization.

process for preparing a catalyst for polymerizing as claimed in claim 7, wherein the polymer is

25